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DATE: Wednesday, July 07, 2004

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<input type="checkbox"/>	L5	et\$18\$o\$ch3	31
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<input type="checkbox"/>	L3	et\$18\$	2857558
<input type="checkbox"/>	L2	(ether adj3 \$lipid) same liposome	62
<input type="checkbox"/>	L1	(ether adj1 \$lipid) same liposome	38

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L1: Entry 6 of 38

File: USPT

Jan 25, 2000

US-PAT-NO: 6017557

DOCUMENT-IDENTIFIER: US 6017557 A

TITLE: Carriers containing an etherlipid/complementarily shape lipid combination and therapeutic uses thereof

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Franklin; J. Craig	Skillman	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Perkins; Walter	Hopewell Township	NJ		
Janoff; Andrew	Yardley	PA		

US-CL-CURRENT: 424/450; 428/402.2

CLAIMS:

What is claimed is:

1. A method of treating an animal afflicted with a cancer which comprises reducing the size of a cancerous tumor susceptible to the cytotoxic effects of an etherlipid, the method comprising the steps of administering to the animal a pharmaceutical composition comprising:

(a) a pharmaceutically acceptable carrier; and,

(b) a lipid-based carrier having a lipid component which consists essentially of:

(i) an etherlipid having the formula: ##STR5## (ii) a complementarily shaped lipid, wherein:

R.sup.1 is a group having the formula Y.sub.1 Y.sub.2 ;

Y.sub.1 is --(CH.sub.2).sub.n1 (CH.dbd.CH).sub.n2 (CH.sub.2).sub.n3 (CH.dbd.CH).sub.n4 (CH.sub.2).sub.n5 (CH.dbd.CH).sub.n6 (CH.sub.2).sub.n7 (CH.dbd.CH).sub.n8 (CH.sub.2).sub.n9 ;

the sum of n1+2n2+n3+2n4+n5+2n6+n7+2n8+n9 is an integer of from 9 to 23;

n1 is zero or an integer of from 1 to 23, n3 is zero or an integer of from 1 to 20, n5 is zero or an integer of from 1 to 17, n7 is zero or an integer of from 1 to 14 and n9 is zero or an integer of from 1 to 11;

each of n₂, n₄, n₆ and n₈ is independently zero or 1;

Y₂ is CH₃ or CO₂H;

Z is oxygen or sulfur;

the etherlipid comprises from about 30 mole percent to less than about 50 mole percent of the lipid component;

the complementarily shaped lipid comprises from greater than about 50 mole percent to about 70 mole percent of the lipid component; and, the MMAM_{actual} of the lipid is at least about 20% less than the MMAM_{expected} of the lipid, and wherein the amount of the composition administered to the animal comprises a tumor growth-reducing effective amount of the etherlipid.

2. The method of claim 1, wherein the lipid-based carrier is a liposome.

3. The method of claim 1, wherein R¹ is (CH₂)₁₇CH₃.

4. The method of claim 3, wherein the etherlipid is:

CH --O--(CH₂)₁₇CH₃ ##STR6##

5. The method of claim 1, wherein the complementarily shaped lipid is cardiolipin, diarachidonoyl phosphatidylethanolamine, a neutral sterol or an anionic sterol derivative selected from the group consisting of sulfate, phosphate and organic dicarboxylic acid salt derivatives.

6. The method of claim 5, wherein the complementarily shaped lipid is the neutral sterol cholesterol.

7. The method of claim 5, wherein the complementarily shaped lipid is the anionic sterol derivative cholesterol sulfate.

8. The method of claim 5, wherein the complementarily shaped lipid comprises a neutral sterol and an anionic sterol derivative.

9. The method of claim 8, wherein the neutral sterol and anionic sterol derivative are present in the lipid at a respective molar ratio of about 5:1.

10. The method of claim 8, wherein the neutral sterol is cholesterol and the anionic sterol derivative is cholesterol sulfate.

11. The method of claim 1, wherein the etherlipid comprises about 40 mole percent of the lipid component and the complementarily shaped lipid comprises about 60 mole percent of the lipid component.

12. The method of claim 1, wherein the etherlipid is and wherein the complementarily shaped lipid is cholesterol, cholesterol sulfate or a 5:1 molar combination of cholesterol and cholesterol sulfate.

13. The method of claim 12, wherein the etherlipid comprises about 40 mole percent of the lipid component and the complementarily shaped lipid comprises

about 60 mole percent of the lipid component.

14. The method of claim 2, wherein the liposome is a unilamellar liposome having an average size of about 50-250 nm.

15. The method of claim 1, wherein the tumor growth-reducing effective amount of the etherlipid is from about 1 mg of the etherlipid per kg of the animal's body weight to about 1000 mg per kg.

16. The method of claim 1, wherein the cancer is a leukemia, lymphomas, sarcoma or carcinoma.

17. The method of claim 1, wherein the cancer is a brain, breast, prostate, colon, stomach or ovarian cancer.

18. The method of claim 1, comprising administering an additional bioactive agent to the animal.

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L1: Entry 6 of 38

File: USPT

Jan 25, 2000

US-PAT-NO: 6017557

DOCUMENT-IDENTIFIER: US 6017557 A

TITLE: Carriers containing an etherlipid/complementarily shape lipid combination and therapeutic uses thereof

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Franklin; J. Craig	Skillman	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Perkins; Walter	Hopewell Township	NJ		
Janoff; Andrew	Yardley	PA		

US-CL-CURRENT: 424/450; 428/402.2

CLAIMS:

What is claimed is:

1. A method of treating an animal afflicted with a cancer which comprises reducing the size of a cancerous tumor susceptible to the cytotoxic effects of an etherlipid, the method comprising the steps of administering to the animal a pharmaceutical composition comprising:

(a) a pharmaceutically acceptable carrier; and,

(b) a lipid-based carrier having a lipid component which consists essentially of:

(i) an etherlipid having the formula: ##STR5## (ii) a complementarily shaped lipid, wherein:

R.sup.1 is a group having the formula Y.sub.1 Y.sub.2 ;

Y.sub.1 is --(CH.sub.2).sub.n1 (CH.dbd.CH).sub.n2 (CH.sub.2).sub.n3 (CH.dbd.CH).sub.n4 (CH.sub.2).sub.n5 (CH.dbd.CH).sub.n6 (CH.sub.2).sub.n7 (CH.dbd.CH).sub.n8 (CH.sub.2).sub.n9 ;

the sum of n1+2n2+n3+2n4+n5+2n6+n7+2n8+n9 is an integer of from 9 to 23;

n1 is zero or an integer of from 1 to 23, n3 is zero or an integer of from 1 to 20, n5 is zero or an integer of from 1 to 17, n7 is zero or an integer of from 1 to 14 and n9 is zero or an integer of from 1 to 11;

each of n₂, n₄, n₆ and n₈ is independently zero or 1;

Y_{.sub.2} is CH_{.sub.3} or CO_{.sub.2} H;

Z is oxygen or sulfur;

the etherlipid comprises from about 30 mole percent to less than about 50 mole percent of the lipid component;

the complementarily shaped lipid comprises from greater than about 50 mole percent to about 70 mole percent of the lipid component; and, the MMAM_{.sub.actual} of the lipid is at least about 20% less than the MMAM_{.sub.expected} of the lipid, and wherein the amount of the composition administered to the animal comprises a tumor growth-reducing effective amount of the etherlipid.

2. The method of claim 1, wherein the lipid-based carrier is a liposome.

3. The method of claim 1, wherein R_{.sup.1} is (CH_{.sub.2}).sub.17 CH_{.sub.3}.

4. The method of claim 3, wherein the etherlipid is:

CH --O--(CH_{.sub.2}).sub.17 CH_{.sub.3} ##STR6##

5. The method of claim 1, wherein the complementarily shaped lipid is cardiolipin, diarachidonoyl phosphatidylethanolamine, a neutral sterol or an anionic sterol derivative selected from the group consisting of sulfate, phosphate and organic dicarboxylic acid salt derivatives.

6. The method of claim 5, wherein the complementarily shaped lipid is the neutral sterol cholesterol.

7. The method of claim 5, wherein the complementarily shaped lipid is the anionic sterol derivative cholesterol sulfate.

8. The method of claim 5, wherein the complementarily shaped lipid comprises a neutral sterol and an anionic sterol derivative.

9. The method of claim 8, wherein the neutral sterol and anionic sterol derivative are present in the lipid at a respective molar ratio of about 5:1.

10. The method of claim 8, wherein the neutral sterol is cholesterol and the anionic sterol derivative is cholesterol sulfate.

11. The method of claim 1, wherein the etherlipid comprises about 40 mole percent of the lipid component and the complementarily shaped lipid comprises about 60 mole percent of the lipid component.

12. The method of claim 1, wherein the etherlipid is and wherein the complementarily shaped lipid is cholesterol, cholesterol sulfate or a 5:1 molar combination of cholesterol and cholesterol sulfate.

13. The method of claim 12, wherein the etherlipid comprises about 40 mole percent of the lipid component and the complementarily shaped lipid comprises

about 60 mole percent of the lipid component.

14. The method of claim 2, wherein the liposome is a unilamellar liposome having an average size of about 50-250 nm.

15. The method of claim 1, wherein the tumor growth-reducing effective amount of the etherlipid is from about 1 mg of the etherlipid per kg of the animal's body weight to about 1000 mg per kg.

16. The method of claim 1, wherein the cancer is a leukemia, lymphomas, sarcoma or carcinoma.

17. The method of claim 1, wherein the cancer is a brain, breast, prostate, colon, stomach or ovarian cancer.

18. The method of claim 1, comprising administering an additional bioactive agent to the animal.

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L1: Entry 8 of 38

File: USPT

Aug 3, 1999

US-PAT-NO: 5932242

DOCUMENT-IDENTIFIER: US 5932242 A

TITLE: Ether lipid-containing pharmaceutical compositions and therapeutic uses thereof

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Franklin; J. Craig	East Windsor	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Perkins; Walter	Skillman	NJ		
Janoff; Andrew	Yardley	PA		

US-CL-CURRENT: 424/450

CLAIMS:

What is claimed is:

1. A pharmaceutical composition comprising:

(a) a pharmaceutically acceptable carrier; and,

(b) a lamella comprising a lipid which consists essentially of:

(i) a glycerolipid having the formula: ##STR5## (ii) a complementarily shaped lipid, wherein:

R.sup.1 is a group having the formula Y.sub.1 Y.sub.2 ;

Y.sub.1 is (CH.sub.2).sub.n1 (CH.dbd.CH).sub.n2 (CH.sub.2).sub.n3 (CH.dbd.CH).sub.n4 (CH.sub.2).sub.n5 (CH.dbd.CH).sub.n6 (CH.sub.2).sub.n7 (CH.dbd.CH).sub.n8 (CH.sub.2).sub.n9 ;

the sum of n1+2n2+n3+2n4+n5+2n6+n7+2n8+n9 is an integer of from 9 to 23;

n1 is zero or an integer of from 1 to 23, n3 is zero or an integer of from 1 to 20, n5 is zero or an integer of from 1 to 17, n7 is zero or an integer of from zero to 14 and n9 is zero or an integer of from 1 to 11;

each of n2, n4, n6 and n8 is independently zero or 1;

Y.sub.2 is CH.sub.3 or CO.sub.2 H;

Z is oxygen or sulfur;

the glycerolipid comprises from about 30 mole percent to about 50 mole percent of the lipid;

the complementarily shaped lipid comprises from about 50 mole percent to about 70 mole percent of the lipid; and,

the MMAM.sub.actual of the lipid is at least about 20% less than the MMAM.sub.expected of the lipid.

2. The composition of claim 1, wherein R.sup.1 is (CH₂).sub.n1 CH₂.3.
3. The composition of claim 2, wherein R.sup.1 is (CH₂).sub.17 CH₂.3.
4. The composition of claim 1, wherein Z is O.
5. The composition of claim 1, wherein the glycerolipid is: ##STR6##
6. The composition of claim 1, wherein the complementarily shaped lipid is a neutral sterol, anionic sterol derivative selected from the group consisting of sulfate, phosphate and organic dicarboxylic acid salt derivatives, cardiolipin or diarachidonoyl phosphatidylethanolamine.
7. The composition of claim 6, wherein the complementarily shaped lipid is the neutral sterol cholesterol.
8. The composition of claim 6, wherein the complementarily shaped lipid is the anionic sterol derivative cholesterol sulfate.
9. The composition of claim 6, wherein the complementarily shaped lipid comprises a neutral sterol and an anionic sterol derivative.
10. The composition of claim 9, wherein the neutral sterol is cholesterol and the anionic sterol derivative is cholesterol sulfate.
11. The composition of claim 9, wherein the neutral sterol and anionic sterol derivative are present in the lipid at a respective molar ratio of about 5:1.
12. The composition of claim 1, wherein the glycerolipid comprises about 40 mole percent of the lamellar lipid and the complementarily shaped lipid comprises about 60 mole percent of the lamellar lipid.
13. The composition of claim 1, wherein the glycerolipid is and wherein the complementarily shaped lipid is cholesterol.
14. The composition of claim 13, wherein the glycerolipid comprises about 40 mole percent of the lipid and the complementarily shaped lipid comprises about 60 mole percent of the lipid.
15. The composition of claim 1, wherein the glycerolipid is ##STR7## and wherein the complementarily shaped lipid is cholesterol sulfate.
16. The composition of claim 15, wherein the glycerolipid comprises about 40

mole percent of the lipid and the complementarily shaped lipid comprises about 60 mole percent of the lipid.

17. The composition of claim 1, wherein the glycerolipid is ##STR8## wherein the complementarily shaped lipid comprises cholesterol and cholesterol sulfate and wherein cholesterol and cholesterol sulfate are present in the lipid of a respective molar ratio of about 5:1.

18. The composition of claim 17, wherein the glycerolipid comprises about 40 mole percent of the lipid and the complementarily shaped lipid comprises about 60 mole percent of the lipid.

19. The composition of claim 1, wherein the lamella is a liposomal bilayer.

20. The composition of claim 19, wherein the liposome is a unilamellar liposome having an average size of about 50-250 nm.

21. The composition of claim 19, wherein the liposome is a multilamellar liposome.

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L1: Entry 16 of 38

File: USPT

Jan 11, 1994

DOCUMENT-IDENTIFIER: US 5277913 A

**** See image for Certificate of Correction ****

TITLE: Liposomal delivery system with photoactivatable triggered release

Detailed Description Text (92):

Other examples of plasmalogens that would be suitable for making the liposomes of the present invention include bis-vinyl ether lipid (having an sn-1 and sn-2 chain) or (sn-1).sub.2 or (sn-2).sub.2 ; mono or bis-enamine; mono or bis-vinyl ether that is non-glycerol based.

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1. Document ID: US 6667053 B1

Using default format because multiple data bases are involved.

L1: Entry 1 of 38

File: USPT

Dec 23, 2003

US-PAT-NO: 6667053

DOCUMENT-IDENTIFIER: US 6667053 B1

TITLE: D and L etherlipid stereoisomers and liposomes

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ahmad; Imran	Cranbury	NJ		
Mayhew; Eric	Seattle	WA		
Janoff; Andrew	Yardley	PA		

US-CL-CURRENT: 424/450; 428/402.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KUDC](#) | [Drawn D](#)

2. Document ID: US 6403117 B1

L1: Entry 2 of 38

File: USPT

Jun 11, 2002

US-PAT-NO: 6403117

DOCUMENT-IDENTIFIER: US 6403117 B1

TITLE: Archaesomes, archaeosomes containing coenzyme Q10 and other types of liposomes containing coenzyme Q10 adjuvants and as delivery vehicles

DATE-ISSUED: June 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprott; G. Dennis	Orleans			CA
Patel; Girishchandra B.	Nepean			CA
Makabi-Panzu; Boby	Gatineau			CA

US-CL-CURRENT: 424/450; 424/1.21, 424/184.1, 424/193.1, 424/204.1, 424/812,
424/9.321, 424/9.51, 424/94.3, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw	De
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3. Document ID: US 6395713 B1

L1: Entry 3 of 38

File: USPT

May 28, 2002

US-PAT-NO: 6395713

DOCUMENT-IDENTIFIER: US 6395713 B1

TITLE: Compositions for the delivery of negatively charged molecules

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beigelman; Leonid	Longmont	CO		
Matulic-Adamic; Jasenka	Boulder	CO		
Karpeisky; Alex	Layfayette	CO		
Haeberli; Peter	Berthoud	CO		
Sweedler; David	Louisville	CO		
Reynolds; Mark	Layfayette	CO		
Chaudhary; Nilabh	Superior	CO		
Min; John	Longmont	CO		

US-CL-CURRENT: 514/44; 424/422, 424/423, 424/449, 424/450, 435/458, 554/105,
560/158, 560/159, 560/180, 560/190, 564/157, 564/159, 564/511

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw	De
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4. Document ID: US 6132789 A

L1: Entry 4 of 38

File: USPT

Oct 17, 2000

US-PAT-NO: 6132789

DOCUMENT-IDENTIFIER: US 6132789 A

TITLE: Archaeosomes, archaeosomes containing coenzyme Q.sub.10, and other types of liposomes containing coenzyme Q.sub.10 as adjuvants and as delivery vehicles

DATE-ISSUED: October 17, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprott; G. Dennis	Orleans			CA
Patel; Girishchandra B.	Nepean			CA
Makabi-Panzu; Boby	Gatineau			CA
Tolson; Douglas L.	Victoria			CA

US-CL-CURRENT: 426/450; 424/184.1, 424/193.1, 424/812, 436/829

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawn
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5. Document ID: US 6090406 A

L1: Entry 5 of 38

File: USPT

Jul 18, 2000

US-PAT-NO: 6090406

DOCUMENT-IDENTIFIER: US 6090406 A

TITLE: Potentiation of immune responses with liposomal adjuvants

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Popescu; Mircea C.	Plainsboro	NJ		
Weiner; Alan L.	Lawrenceville	NJ		
Recine; Marie S.	Hamilton Township	NJ		
Janoff; Andrew S.	Yardley	PA		
Estis; Leonard	Upton	MA		
Keyes; Lynn D.	Upton	MA		
Alving; Carl R.	Bethesda	MD		

US-CL-CURRENT: 424/450; 264/4.1, 424/196.11, 424/204.1, 424/206.1, 424/234.1, 424/812

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawn
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6. Document ID: US 6017557 A

L1: Entry 6 of 38

File: USPT

Jan 25, 2000

US-PAT-NO: 6017557

DOCUMENT-IDENTIFIER: US 6017557 A

TITLE: Carriers containing an etherlipid/complementarily shape lipid combination and therapeutic uses thereof

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Franklin; J. Craig	Skillman	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Perkins; Walter	Hopewell Township	NJ		
Janoff; Andrew	Yardley	PA		

US-CL-CURRENT: 424/450; 428/402.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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7. Document ID: US 5989587 A

L1: Entry 7 of 38

File: USPT

Nov 23, 1999

US-PAT-NO: 5989587

DOCUMENT-IDENTIFIER: US 5989587 A

**** See image for Certificate of Correction ****

TITLE: Formation of stable liposomes from lipid extracts of archaeobacteria (archaeu)

DATE-ISSUED: November 23, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sprott; G. Dennis	Ottawa			CA
Patel; Girishchandra B.	Nepean			CA
Choquet; Christian G.	Quebec			CA
Ekiel; Irena	Quebec			CA

US-CL-CURRENT: 424/450; 428/402.2, 554/213, 554/79, 554/80

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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8. Document ID: US 5932242 A

L1: Entry 8 of 38

File: USPT

Aug 3, 1999

US-PAT-NO: 5932242

DOCUMENT-IDENTIFIER: US 5932242 A

TITLE: Ether lipid-containing pharmaceutical compositions and therapeutic uses thereof

DATE-ISSUED: August 3, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Franklin; J. Craig	East Windsor			NJ
Mayhew; Eric	Monmouth Junction			NJ
Perkins; Walter	Skillman			NJ
Janoff; Andrew	Yardley			PA

US-CL-CURRENT: 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMTC	Drawn D
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9. Document ID: US 5916588 A

L1: Entry 9 of 38

File: USPT

Jun 29, 1999

US-PAT-NO: 5916588

DOCUMENT-IDENTIFIER: US 5916588 A

TITLE: Peptide-containing liposomes, immunogenic liposomes and methods of preparation and use

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Popescu; Mircea C.	Plainsboro	NJ		
Weiner; Alan L.	Lawrenceville	NJ		
Recine; Marie S.	Hamilton Township	NJ		
Janoff; Andrew S.	Yardley	PA		
Estis; Leonard	Upton	MA		
Keyes; Lynn D.	Upton	MA		
Alving; Carl R.	Bethesda	MD		

US-CL-CURRENT: 424/450; 424/184.1[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D...](#) 10. Document ID: US 5762958 A

L1: Entry 10 of 38

File: USPT

Jun 9, 1998

US-PAT-NO: 5762958

DOCUMENT-IDENTIFIER: US 5762958 A

TITLE: Multilipid component ether lipid liposomes

DATE-ISSUED: June 9, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayhew; Eric	Monmouth Junction	NJ		
Janoff; Andrew S.	Yardley	PA		
Ahmad; Imran	Cranbury	NJ		
Bhatia; Suresh K.	New Delhi			IN

US-CL-CURRENT: 424/450; 428/402.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMC](#) | [Drawn D...](#)

11. Document ID: US 5681589 A

L1: Entry 11 of 38

File: USPT

Oct 28, 1997

US-PAT-NO: 5681589

DOCUMENT-IDENTIFIER: US 5681589 A

** See image for Certificate of Correction **

TITLE: Liposomal ceramide-related liposomes and the therapeutic use thereof

DATE-ISSUED: October 28, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Yong	Branchburg	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Ahmad; Imran	Plainsboro	NJ		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 424/450; 428/402.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Draw](#) | [D](#) 12. Document ID: US 5677337 A

L1: Entry 12 of 38

File: USPT

Oct 14, 1997

US-PAT-NO: 5677337

DOCUMENT-IDENTIFIER: US 5677337 A

** See image for Certificate of Correction **

TITLE: Methods of treatment using pharmaceutically active ceramide-related compositions

DATE-ISSUED: October 14, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Yong	Branchburg	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Ahmad; Imran	Plainsboro	NJ		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 514/546; 424/450, 514/549, 514/551, 514/552, 514/63[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Draw](#) | [D](#) 13. Document ID: US 5631394 A

L1: Entry 13 of 38

File: USPT

May 20, 1997

US-PAT-NO: 5631394

DOCUMENT-IDENTIFIER: US 5631394 A

** See image for Certificate of Correction **

TITLE: Pharmaceutically active ceramide-related compounds

DATE-ISSUED: May 20, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Yong	Branchburg	NJ		
Mayhew; Eric	Monmouth Junction	NJ		
Ahmad; Imran	Plainsboro	NJ		
Janoff; Andrew S.	Yardley	PA		

US-CL-CURRENT: 556/404, 556/405, 562/455, 562/567, 564/169, 564/199, 564/200,
564/84, 564/88, 564/95[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn](#) | [De](#)

 14. Document ID: US 5441746 A

L1: Entry 14 of 38

File: USPT

Aug 15, 1995

US-PAT-NO: 5441746

DOCUMENT-IDENTIFIER: US 5441746 A

** See image for Certificate of Correction **

TITLE: Electromagnetic wave absorbing, surface modified magnetic particles for use in medical applications, and their method of production

DATE-ISSUED: August 15, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chagnon; Mark S.	Pelham	NH		

US-CL-CURRENT: 424/450, 424/490, 424/498, 424/600, 424/617, 424/630, 424/635,
424/639, 424/641, 424/644, 424/646, 424/650, 428/402.24[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn](#) | [De](#)

 15. Document ID: US 5389377 A

L1: Entry 15 of 38

File: USPT

Feb 14, 1995

US-PAT-NO: 5389377

DOCUMENT-IDENTIFIER: US 5389377 A

** See image for Certificate of Correction **

TITLE: Solid care therapeutic compositions and methods for making same

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chagnon; Mark S.	Pelham	NH		
Ferris; John R.	Newburyport	MA		
Hamilton; Tracy J.	Salem	NH		
Rudd; Edwin A.	Salem	NH		
Carter; Michelle J.	Derry	NH		

US-CL-CURRENT: 424/450; 424/490, 424/498, 424/600, 424/617, 424/630, 424/635,
424/639, 424/641, 424/644, 424/646, 424/650, 428/402.24[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

 16. Document ID: US 5277913 A

L1: Entry 16 of 38

File: USPT

Jan 11, 1994

US-PAT-NO: 5277913

DOCUMENT-IDENTIFIER: US 5277913 A

**** See image for Certificate of Correction ****

TITLE: Liposomal delivery system with photoactivatable triggered release

DATE-ISSUED: January 11, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thompson; David H.	Portland	OR	97229	
Anderson; Valerie C.	Lake Oswego	OR	97034	

US-CL-CURRENT: 424/450; 424/417, 428/402.2, 436/829[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

 17. Document ID: US 5169637 A

L1: Entry 17 of 38

File: USPT

Dec 8, 1992

US-PAT-NO: 5169637

DOCUMENT-IDENTIFIER: US 5169637 A

TITLE: Stable plurilamellar vesicles

DATE-ISSUED: December 8, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE ZIP CODE	COUNTRY
Lenk; Robert P.	Lambertville	NJ	

Fountain; Michael W.	Griggstown	NJ
Janoff; Andrew S.	Yardley	PA
Popescu; Mircea C.	Plainsboro	NJ
Weiss; Steven J.	Hightstown	NJ
Ginsberg; Richard S.	Monroe Township, Salem County	NJ
Ostro; Marc J.	Griggstown	NJ
Gruner; Sol M.	Lawrenceville	NJ

US-CL-CURRENT: 424/450; 514/152, 514/192, 514/2, 514/29, 514/39, 514/41

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D.](#)

18. Document ID: US 5059421 A

L1: Entry 18 of 38

File: USPT

Oct 22, 1991

US-PAT-NO: 5059421

DOCUMENT-IDENTIFIER: US 5059421 A

TITLE: Preparation of targeted liposome systems of a defined size distribution

DATE-ISSUED: October 22, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Loughrey; Helen C.	Vancouver			CA
Cullis; Pieter R.	Vancouver			CA
Bally; Marcel B.	Bowen Island			CA
Choi; Lewis S. L.	Burnaby			CA
Wong; Kim F.	Vancouver			CA

US-CL-CURRENT: 424/417; 264/4.3, 424/418, 424/450, 435/4

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D.](#)

19. Document ID: US 5030453 A

L1: Entry 19 of 38

File: USPT

Jul 9, 1991

US-PAT-NO: 5030453

DOCUMENT-IDENTIFIER: US 5030453 A

TITLE: Stable plurilamellar vesicles

DATE-ISSUED: July 9, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lenk; Robert P.	Lambertville	NJ		

Fountain; Michael W.	Griggstown	NJ
Janoff; Andrew S.	Yardley	PA
Popescu; Mircea C.	Plainsboro	NJ
Weiss; Steven J.	Hightstown	NJ
Ginsberg; Richard S.	Monroe Township,	NJ
Ostro; Marc J.	Griggstown	NJ
Gruner; Sol M.	Lawrenceville	NJ

US-CL-CURRENT: 424/450

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn](#) | [Des](#)

20. Document ID: US 5008050 A

L1: Entry 20 of 38

File: USPT

Apr 16, 1991

US-PAT-NO: 5008050

DOCUMENT-IDENTIFIER: US 5008050 A

TITLE: Extrusion technique for producing unilamellar vesicles

DATE-ISSUED: April 16, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cullis; Pieter R.	Vancouver			CA
Hope; Michael J.	Vancouver			CA
Bally; Marcel B.	Vancouver			CA

US-CL-CURRENT: 264/4.3; 424/1.21, 424/450, 428/402.2, 436/829

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn](#) | [Des](#)

21. Document ID: US 4937078 A

L1: Entry 21 of 38

File: USPT

Jun 26, 1990

US-PAT-NO: 4937078

DOCUMENT-IDENTIFIER: US 4937078 A

TITLE: Liposomal local anesthetic and analgesic products

DATE-ISSUED: June 26, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mezei; Michael	Halifax			CA
Gesztes; Adrienn	Budapest			HU

US-CL-CURRENT: 424/450; 514/817, 514/818[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn D.](#) 22. Document ID: US 4897269 A

L1: Entry 22 of 38

File: USPT

Jan 30, 1990

US-PAT-NO: 4897269

DOCUMENT-IDENTIFIER: US 4897269 A

TITLE: Administration of drugs with multiphase liposomal delivery system

DATE-ISSUED: January 30, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mezei; Michael	Halifax			CA

US-CL-CURRENT: 424/450; 264/4.1, 264/4.6, 428/402.2, 436/829, 514/272, 514/78,
514/880, 514/887, 514/944[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn D.](#) 23. Document ID: US 4761288 A

L1: Entry 23 of 38

File: USPT

Aug 2, 1988

US-PAT-NO: 4761288

DOCUMENT-IDENTIFIER: US 4761288 A

TITLE: Multiphase liposomal drug delivery system

DATE-ISSUED: August 2, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mezei; Michael	Nova Scotia			CA

US-CL-CURRENT: 424/450; 264/4.6, 428/402.2, 436/829, 514/272, 514/78, 514/880,
514/887, 514/944[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn D.](#) 24. Document ID: US 4241046 A

L1: Entry 24 of 38

File: USPT

Dec 23, 1980

US-PAT-NO: 4241046

DOCUMENT-IDENTIFIER: US 4241046 A

TITLE: Method of encapsulating biologically active materials in lipid vesicles

DATE-ISSUED: December 23, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Papahadjopoulos; Demetrios P.	Williamsville	NY	14221	
Szoka, Jr.; Francis C.	Buffalo	NY	14214	

US-CL-CURRENT: 424/420; 424/450

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

25. Document ID: US 4235871 A

L1: Entry 25 of 38

File: USPT

Nov 25, 1980

US-PAT-NO: 4235871

DOCUMENT-IDENTIFIER: US 4235871 A

TITLE: Method of encapsulating biologically active materials in lipid vesicles

DATE-ISSUED: November 25, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Papahadjopoulos; Demetrios P.	Williamsville	NY	14221	
Szoka, Jr.; Francis C.	Buffalo	NY	14214	

US-CL-CURRENT: 424/450; 264/4.6, 424/196.11, 424/197.11, 424/204.1, 424/234.1,
424/606, 424/812, 424/94.3, 424/94.6, 428/402.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

26. Document ID: WO 9611670 A1

L1: Entry 26 of 38

File: EPAB

Apr 25, 1996

PUB-NO: WO009611670A1

DOCUMENT-IDENTIFIER: WO 9611670 A1

TITLE: ETHER LIPID LIPOSOMES AND THEIR THERAPEUTIC USE

PUBN-DATE: April 25, 1996

INVENTOR-INFORMATION:

NAME	COUNTRY
MAYHEW, ERIC	
JANOFF, ANDREW S	
AHMAD, IMRAN	
BHATIA, SURESH K	

INT-CL (IPC) : A61 K 9/127; A61 K 31/685
 EUR-CL (EPC) : A61K009/127; A61K031/66

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Draw. D.](#)

27. Document ID: WO 9308202 A1

L1: Entry 27 of 38

File: EPAB

Apr 29, 1993

PUB-NO: WO009308202A1

DOCUMENT-IDENTIFIER: WO 9308202 A1

TITLE: FORMATION OF STABLE LIPOSOMES FROM LIPID EXTRACTS OF ARCHAEOBACTERIA (ARCHAEA)

PUBN-DATE: April 29, 1993

INVENTOR-INFORMATION:

NAME	COUNTRY
SPROTT, DENNIS G	CA
PATEL, GIRISHCHANDRA B	CA
CHOQUET, CHRISTIAN G	CA
EKIEL, IRENA	CA

INT-CL (IPC) : A61K 9/127; C07H 15/04; C07H 15/08; C07H 15/26

EUR-CL (EPC) : A61K009/127; C07F009/10, C07H015/04

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Draw. D.](#)

28. Document ID: JP 2003530339 W, WO 200176556 A2, AU 200148302 A, EP 1272161 A2, US 20030162748 A1

L1: Entry 28 of 38

File: DWPI

Oct 14, 2003

DERWENT-ACC-NO: 2002-055196

DERWENT-WEEK: 200368

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TITLE: Use of lipid-based drug delivery system comprising active drug such as lysolipid derivative prodrug for treating diseases or detection of parasitic infections causing elevated phospholipase A2 level

INVENTOR: DAVIDSEN, J; FROKJAER, S ; JORGENSEN, K ; MOURITSEN, O G ; VERMEHREN, C ; FROKJER, S

PRIORITY-DATA: 2000DK-0000616 (April 12, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2003530339 W</u>	October 14, 2003		092	A61K038/00
<u>WO 200176556 A2</u>	October 18, 2001	E	079	A61K009/127
<u>AU 200148302 A</u>	October 23, 2001		000	A61K009/127
<u>EP 1272161 A2</u>	January 8, 2003	E	000	A61K009/127

US 20030162748 A1

August 28, 2003

000

A61K031/685

INT-CL (IPC): A61 K 9/107; A61 K 9/127; A61 K 31/685; A61 K 38/00; A61 K 47/00; A61 K 47/48; A61 P 33/00; A61 P 33/02; A61 P 33/04; A61 P 33/06; A61 P 43/00

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Draw. D](#)

29. Document ID: US 20040047903 A1, WO 200174333 A1, AU 200155211 A, EP 1267835 A1, JP 2003528908 W, US 6667053 B1

L1: Entry 29 of 38

File: DWPI

Mar 11, 2004

DERWENT-ACC-NO: 2001-662945

DERWENT-WEEK: 200419

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TITLE: A liposome having a lipid bilayer comprising D- and L- etherlipid stereoisomers is useful in treating cancer and inflammation, such as arthritic conditions, asthmatic disorders or allergic reactions

INVENTOR: AHMAD, I; JANOFF, A S ; MAYHEW, E ; AHMED, I ; JANOFF, A

PRIORITY-DATA: 2000US-0540050 (March 31, 2000), 1996US-0602669 (February 16, 1996), 1998US-0017440 (February 2, 1998), 1999US-0390395 (September 3, 1999), 2003US-0647382 (August 26, 2003)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040047903 A1</u>	March 11, 2004		000	A61K009/127
<u>WO 200174333 A1</u>	October 11, 2001	E	048	A61K009/127
<u>AU 200155211 A</u>	October 15, 2001		000	
<u>EP 1267835 A1</u>	January 2, 2003	E	000	A61K009/127
<u>JP 2003528908 W</u>	September 30, 2003		050	A61K031/661
<u>US 6667053 B1</u>	December 23, 2003		000	A61K009/133

INT-CL (IPC): A61 K 9/127; A61 K 9/133; A61 K 31/661; A61 K 45/00; A61 K 47/24; A61 K 47/28; A61 P 7/00; A61 P 31/04; A61 P 35/00; A61 P 35/02; A61 P 43/00; C07 F 9/10

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KOMC](#) | [Draw. D](#)

30. Document ID: US 6180137 B1

L1: Entry 30 of 38

File: DWPI

Jan 30, 2001

DERWENT-ACC-NO: 2001-234227

DERWENT-WEEK: 200404

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TITLE: Ether-lipid containing multiple lipid liposomes, useful for treatment of inflammation and cancer

INVENTOR: AHMAD, I; BHATIA, S K ; JANOFF, A S ; MAYHEW, E

PRIORITY-DATA: 1998US-0017440 (February 2, 1998), 1996US-0602669 (February 16, 1996), 1999US-0390395 (September 3, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 6180137 B1</u>	January 30, 2001		011	A61K009/127

INT-CL (IPC): A61 K 9/127

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KMD](#) | [Draw](#) | [D](#)

Terms	Documents
(ether adj1 \$lipid) same liposome	38

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Search Results - Record(s) 31 through 38 of 38 returned.

31. Document ID: DE 19913640 A1, KR 2000061075 A

Using default format because multiple data bases are involved.

L1: Entry 31 of 38

File: DWPI

Sep 28, 2000

DERWENT-ACC-NO: 2000-639578

DERWENT-WEEK: 200124

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TITLE: Pharmaceutical composition comprising drug, e.g. anticancer agent, encapsulated in liposomes, containing polymer-lipid conjugate as stabilizer to inhibit liposome aggregation

INVENTOR: CHENG, J

PRIORITY-DATA: 1999DE-1013640 (March 25, 1999), 1999KR-0009859 (March 23, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19913640 A1	September 28, 2000		011	A61K009/127
KR 2000061075 A	October 16, 2000		000	A61K009/127

INT-CL (IPC): A61 K 9/127

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIND](#) | [Drawn D](#)

32. Document ID: CN 1262925 A

L1: Entry 32 of 38

File: DWPI

Aug 16, 2000

DERWENT-ACC-NO: 2000-639142

DERWENT-WEEK: 200062

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TITLE: Preparation of liposomes for enclosing medicine involves adding polyalkyl ether lipid to prevent liposome agglutination

INVENTOR: ZHENG, R

PRIORITY-DATA: 1999CN-0100709 (February 11, 1999)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1262925 A	August 16, 2000		000	A61K009/127

INT-CL (IPC): A61 K 9/127; A61 K 9/50; A61 K 9/52; A61 K 31/70

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn D
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33. Document ID: US 5965159 A

L1: Entry 33 of 38

File: DWPI

Oct 12, 1999

DERWENT-ACC-NO: 1999-589894

DERWENT-WEEK: 200404

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TITLE: New liposome, useful for the treatment of e.g. cancer, comprises a phosphatidylcholine, a sterol, a headgroup-derivatised lipid and an ether lipid

INVENTOR: AHMAD, I; BHATIA, S K ; JANOFF, A S ; MAYHEW, E

PRIORITY-DATA: 1998US-0017440 (February 2, 1998), 1996US-0602669 (February 16, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 5965159 A</u>	October 12, 1999		011	A61K009/127

INT-CL (IPC): A61 K 9/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn D
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34. Document ID: US 5762958 A

L1: Entry 34 of 38

File: DWPI

Jun 9, 1998

DERWENT-ACC-NO: 1998-347243

DERWENT-WEEK: 200404

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TITLE: Multilayered component ether lipid liposomes - useful as drug delivery vehicles or for treatment of cancers and inflammatory disorders

INVENTOR: AHMAD, I; BHATIA, S K ; JANOFF, A S ; MAYHEW, E

PRIORITY-DATA: 1996US-0602669 (February 16, 1996), 1994US-0323042 (October 14, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 5762958 A</u>	June 9, 1998		008	A61K009/127

INT-CL (IPC): A61 K 9/127

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KINIC	Drawn D
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□ 35. Document ID: WO 9731624 A1, AU 9723169 A

L1: Entry 35 of 38

File: DWPI

Sep 4, 1997

DERWENT-ACC-NO: 1997-470450

DERWENT-WEEK: 199743

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TITLE: Enhancing delivery of bio-active agents to cell cytoplasm - from liposomes containing (alkenyl, alkyl)- or (di:alkenyl)-glycerophosphate ester which is cleaved by lower cell pH to release the agent

INVENTOR: LOW, P S; RUI, Y ; THOMPSON, D H ; WANG, S

PRIORITY-DATA: 1996US-012353P (February 27, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>WO 9731624 A1</u>	September 4, 1997	E	040	A61K009/127
<u>AU 9723169 A</u>	September 16, 1997		000	A61K009/127

INT-CL (IPC): A61 K 9/127

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 [Date](#) |
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 [Claims](#) |
 [KIMD](#) |
 [Drawn D](#)

□ 36. Document ID: DE 59708666 G, DE 19607722 A1, WO 9731927 A1, AU 9718795 A, EP 883624 A1, EP 883624 B1

L1: Entry 36 of 38

File: DWPI

Dec 12, 2002

DERWENT-ACC-NO: 1997-436465

DERWENT-WEEK: 200282

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TITLE: New tetra:ether lipid for making liposome(s) - with saccharide (derivative) group, phospho group, and poly(isoprene) linker groups between two glycerol units

INVENTOR: ANTONOPOULOS, E; BAKOWSKY, U ; FREISLEBEN, H ; ROTHE, U ; FREISLEBEN, H J

PRIORITY-DATA: 1996DE-1007722 (February 29, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DE 59708666 G</u>	December 12, 2002		000	C07H015/04
<u>DE 19607722 A1</u>	September 4, 1997		036	C07H015/04
<u>WO 9731927 A1</u>	September 4, 1997	G	092	C07H015/04
<u>AU 9718795 A</u>	September 16, 1997		000	C07H015/04
<u>EP 883624 A1</u>	December 16, 1998	G	000	C07H015/04
<u>EP 883624 B1</u>	November 6, 2002	G	000	C07H015/04

INT-CL (IPC): A61 K 9/127; A61 K 31/57; A61 K 31/70; A61 K 38/28; B01 D 15/08; B01 J 13/02; C07 F 9/10; C07 F 9/655; C07 H 15/04; C07 H 15/08; C07 H 15/26; C12 N 1/20; C12 P 7/24

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn](#) | [D](#)

37. Document ID: KR 381449 B, WO 9611670 A1, AU 9537625 A, FI 9701494 A, NO 9701643 A, EP 785773 A1, BR 1100697 A3, JP 10507450 W, KR 97705378 A, AU 707414 B, EP 785773 B1, ES 2153053 T3, DE 69519802 E, NO 316206 B1

L1: Entry 37 of 38

File: DWPI

Jul 18, 2003

DERWENT-ACC-NO: 1996-221731

DERWENT-WEEK: 200409

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TITLE: New liposome(s) contg an ether lipid - used for treating cancers or inflammatory disorders e.g. arthritis, asthma or allergies

INVENTOR: AHMAD, I; BHATIA, S K ; JANOFF, A S ; MAYHEW, E ; BHATIA, S

PRIORITY-DATA: 1994US-0323042 (October 14, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>KR 381449 B</u>	July 18, 2003		000	A61K031/685
<u>WO 9611670 A1</u>	April 25, 1996	E	045	A61K009/127
<u>AU 9537625 A</u>	May 6, 1996		000	A61K009/127
<u>FI 9701494 A</u>	April 10, 1997		000	A61K000/00
<u>NO 9701643 A</u>	June 9, 1997		000	A61K009/127
<u>EP 785773 A1</u>	July 30, 1997	E	000	A61K009/127
<u>BR 1100697 A3</u>	April 28, 1998		000	A61K009/127
<u>JP 10507450 W</u>	July 21, 1998		046	A61K047/06
<u>KR 97705378 A</u>	October 9, 1997		000	A61K009/127
<u>AU 707414 B</u>	July 8, 1999		000	A61K009/127
<u>EP 785773 B1</u>	January 3, 2001	E	000	A61K009/127
<u>ES 2153053 T3</u>	February 16, 2001		000	A61K009/127
<u>DE 69519802 E</u>	February 8, 2001		000	A61K009/127
<u>NO 316206 B1</u>	December 19, 2003		000	A61K009/127

INT-CL (IPC): A61 K 0/00; A61 K 9/127; A61 K 31/685; A61 K 47/06

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINIC](#) | [Drawn](#) | [D](#)

38. Document ID: US N8402783 N

L1: Entry 38 of 38

File: DWPI

Dec 15, 1995

DERWENT-ACC-NO: 1996-128987

DERWENT-WEEK: 200173

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TITLE: Sn-2,3 and -2,3,2',3' liposome ether lipid use to encapsulate antigen - useful for stable, low permeability liposome delivery system with acid- and lipase-resistance esp. for the prepn. of oral vaccines

INVENTOR: CHANG, E L

PRIORITY-DATA: 1995US-0402783 (March 13, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US N8402783 N</u>	December 15, 1995		027	A61K000/00

INT-CL (IPC): A61K 0/00

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw. Des.](#)[Clear](#) | [Generate Collection](#) | [Print](#) | [EWBR](#) | [BWR](#) | [Cited by](#) | [Cited to](#) | [Claims](#) | [KIMC](#) | [Draw. Des.](#)

Terms	Documents
(ether adj1 \$lipid) same liposome	38

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 3. Document ID: US 6667053 B1

L6: Entry 3 of 14

File: USPT

Dec 23, 2003

US-PAT-NO: 6667053

DOCUMENT-IDENTIFIER: US 6667053 B1

TITLE: D and L etherlipid stereoisomers and liposomes

DATE-ISSUED: December 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ahmad; Imran	Cranbury	NJ		
Mayhew; Eric	Seattle	WA		
Janoff; Andrew	Yardley	PA		

US-CL-CURRENT: 424/450; 428/402.2[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINDC](#) | [Drawn D](#)

 4. Document ID: US 6649591 B2

L6: Entry 4 of 14

File: USPT

Nov 18, 2003

US-PAT-NO: 6649591

DOCUMENT-IDENTIFIER: US 6649591 B2

**** See image for Certificate of Correction ****

TITLE: Polydithiocarbamate-containing non-targeting macromolecules and the use thereof for therapeutic and diagnostic applications

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lai; Ching-San	Encinitas	CA		

US-CL-CURRENT: 514/6; 424/9.3, 424/9.34, 424/9.35, 514/2, 514/44, 514/476, 514/483,
514/54, 530/403, 530/404, 530/405, 536/123, 536/123.1, 536/22.1[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KINDC](#) | [Drawn D](#)

 5. Document ID: US 6596770 B2

L6: Entry 5 of 14

File: USPT

Jul 22, 2003

US-PAT-NO: 6596770

DOCUMENT-IDENTIFIER: US 6596770 B2

TITLE: Therapeutic methods employing disulfide derivatives of dithiocarbamates and compositions useful therefor

DATE-ISSUED: July 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lai; Ching-San	Encinitas	CA		
Vassilev; Vassil	San Diego	CA		

US-CL-CURRENT: 514/599; 514/357, 514/408, 514/706, 514/707, 514/851

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

6. Document ID: US 6589991 B1

L6: Entry 6 of 14

File: USPT

Jul 8, 2003

US-PAT-NO: 6589991

DOCUMENT-IDENTIFIER: US 6589991 B1

TITLE: Therapeutic methods employing disulfide derivatives of dithiocarbamates and compositions useful therefor

DATE-ISSUED: July 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lai; Ching-San	Encinitas	CA		
Vassilev; Vassil	San Diego	CA		

US-CL-CURRENT: 514/599

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

7. Document ID: US 6407135 B1

L6: Entry 7 of 14

File: USPT

Jun 18, 2002

US-PAT-NO: 6407135

DOCUMENT-IDENTIFIER: US 6407135 B1

TITLE: Conjugates of dithiocarbamates with pharmacologically active agents and uses therefor

DATE-ISSUED: June 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lai; Ching-San	Encinitas	CA		

Wang; Tingmin San Marcos CA

US-CL-CURRENT: 514/423, 514/2, 514/514, 530/402, 548/565, 548/573

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	WOAC	Draw. D.
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8. Document ID: US 6395299 B1

L6: Entry 8 of 14

File: USPTO

May 28, 2002

US - PAT - NO : 6395299

DOCUMENT-IDENTIFIER: US 6395299 B1

TITLE: Matrices for drug delivery and methods for making and using the same

DATE-ISSUED: May 28, 2002

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Babich; John W.	Scituate	MA		
Zubieta; Jon	Syracuse	NY		
Bonavia; Grant	Kensington	MD		

US-CL-CURRENT: 424/484

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KDDC	Drawn
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9. Document ID: US 6316502 B1

L6: Entry 9 of 14

File: USPT

Nov 13, 2001

US-PAT-NO: 6316502

DOCUMENT-IDENTIFIER: US 6316502 B1

TITLE: Therapeutic methods employing disulfide derivatives of dithiocarbonates and compositions useful therefor

DATE-ISSUED: November 13, 2001

INVENTOR - INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lai; Ching-San	Encinitas	CA		
Vassilev; Vassil	San Diego	CA		

US-CL-CURRENT: 514/599, 514/707, 514/825, 514/838, 514/851, 514/861, 514/866,
514/885, 514/903, 514/912, 514/925

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EMPC	Printed
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10. Document ID: US 6274627 B1

L6: Entry 10 of 14

File: USPT

Aug 14, 2001

US-PAT-NO: 6274627

DOCUMENT-IDENTIFIER: US 6274627 B1

TITLE: Conjugates of dithiocarbamate disulfides with pharmacologically active agents and uses therefor

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lai; Ching-San	Encinitas	CA		
Vassilev; Vassil P.	San Diego	CA		
Wang; Tingmin	San Marcos	CA		

US-CL-CURRENT: 514/599; 514/706, 514/707[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn](#) | [D](#)

 11. Document ID: US 6030960 A

L6: Entry 11 of 14

File: USPT

Feb 29, 2000

US-PAT-NO: 6030960

DOCUMENT-IDENTIFIER: US 6030960 A

TITLE: Method of treating hepatitis virus infections

DATE-ISSUED: February 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Morris-Natschke; Susan L.	Apex	NC		
Kucera; Louis S.	Pfafftown	NC		

US-CL-CURRENT: 514/77; 514/43, 514/893, 514/894, 536/26.9, 536/28.6, 536/28.7,
536/28.8, 546/22, 548/112, 558/169, 558/174, 987/102, 987/209, 987/224, 987/233[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn](#) | [D](#)

 12. Document ID: US 5962437 A

L6: Entry 12 of 14

File: USPT

Oct 5, 1999

US-PAT-NO: 5962437

DOCUMENT-IDENTIFIER: US 5962437 A

** See image for Certificate of Correction **

TITLE: Lipid analogs for treating viral infections

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kucera; Louis S.	Pfafftown	NC		
Morris-Natschke; Susan L.	Apex	NC		
Ishaq; Khalid S.	Chapel Hill	NC		

US-CL-CURRENT: 514/77; 544/157, 544/179, 544/182, 544/2, 544/214, 544/232, 544/243,
544/337, 544/5, 544/53, 544/57, 544/65, 544/66, 544/8, 544/88, 544/98, 546/22

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

13. Document ID: US 5916910 A

L6: Entry 13 of 14

File: USPT

Jun 29, 1999

US-PAT-NO: 5916910

DOCUMENT-IDENTIFIER: US 5916910 A

TITLE: Conjugates of dithiocarbamates with pharmacologically active agents and uses therefore

DATE-ISSUED: June 29, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lai; Ching-San	Encinitas	CA		

US-CL-CURRENT: 514/423; 514/514, 548/564, 548/573, 558/235

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Drawn D](#)

14. Document ID: US 5635493 A

L6: Entry 14 of 14

File: USPT

Jun 3, 1997

US-PAT-NO: 5635493

DOCUMENT-IDENTIFIER: US 5635493 A

TITLE: Methods and compositions for poly-.beta.-1-4-N-acetylglucosamine chemotherapeutics

DATE-ISSUED: June 3, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vournakis; John N.	Hanover	NH		

Finkielstein; Sergio	Chestnut Hill	MA
Pariser; Ernest R.	Belmont	MA
Helton; Mike	Memphis	TN

US-CL-CURRENT: 514/55; 514/2, 514/62, 514/8, 536/20, 536/55.2

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KIMC](#) | [Draw. De](#)

Terms	Documents
L5 and liposome	14

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